



- CONDITION FORMULA 1 : THE SIDE OF USEFUL LIFE

$$\min \{ l_a^{i^*}, l_r^{i^*} \} \leq l_a - \min \{ l_a^{i^*}, l_r^{i^*} \}$$

WHERE i^* IS LIFE TIME OF PRODUCT, i^j IS LIFE TIME OF PARTS

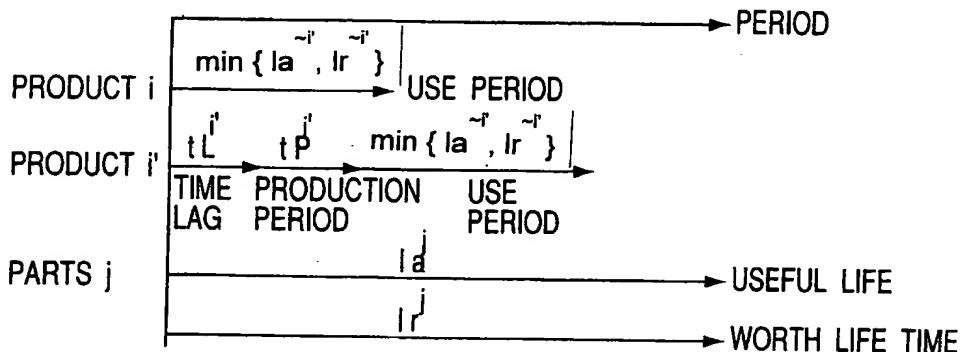


FIG. 19

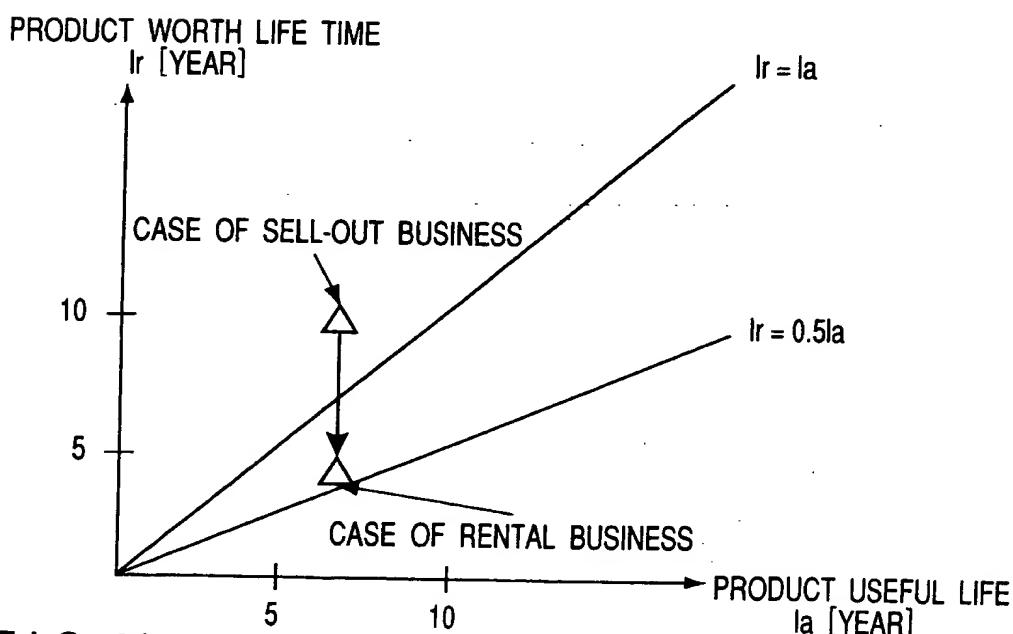


FIG. 20

- CONDITION FORMULA 2 : THE SIDE OF WORTH LIFE TIME

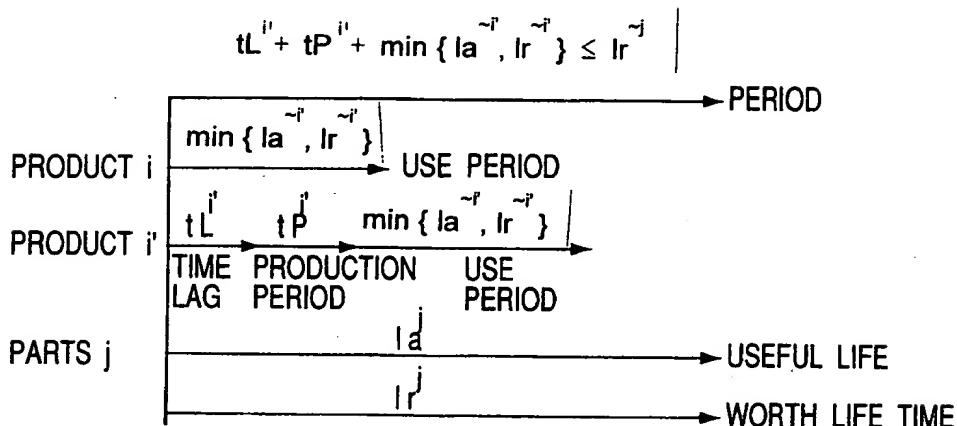


FIG. 21

- CONDITION FORMULA 3 : THE SIDE OF RECOVERY QUANTITY

$$\min \{ l_a^i, l_r^i \} < tL^i + \alpha tP^i$$

WHERE $0 \leq \alpha \leq 1$ α : PERIOD FACTOR

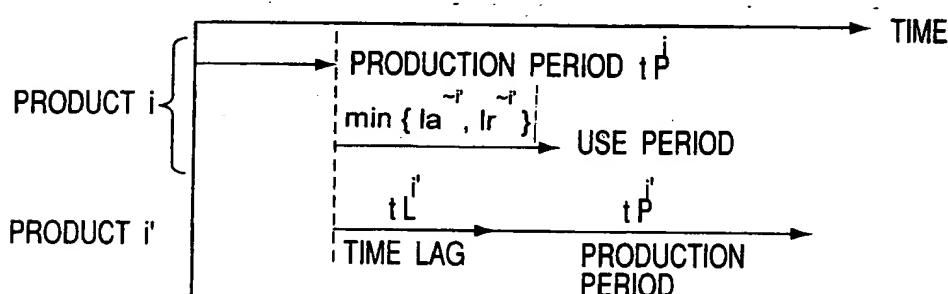


FIG. 22